

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Not for submission under 37 CFR 1.99)

| | |
|------------------------|-------------|
| Application Number | 10723695 |
| Filing Date | 2003-11-24 |
| First Named Inventor | GMEINER |
| Art Unit | 3661 |
| Examiner Name | N/A M. Marc |
| Attorney Docket Number | 71213 |

U.S. PATENTS[Remove](#)

| Examiner Initial* | Cite No | Patent Number | Kind Code ¹ | Issue Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
|-------------------|---------|---------------|------------------------|------------|---|--|
| | 1 | | | | | |

If you wish to add additional U.S. Patent citation information please click the Add button.

[Add](#)**U.S. PATENT APPLICATION PUBLICATIONS**[Remove](#)

| Examiner Initial* | Cite No | Publication Number | Kind Code ¹ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear |
|-------------------|---------|--------------------|------------------------|------------------|---|--|
| | 1 | | | | | |

If you wish to add additional U.S. Published Application citation information please click the Add button.

[Add](#)**FOREIGN PATENT DOCUMENTS**[Remove](#)

| Examiner Initial* | Cite No | Foreign Document Number ³ | Country Code ² j | Kind Code ⁴ | Publication Date | Name of Patentee or Applicant of cited Document | Pages, Columns, Lines where Relevant Passages or Relevant Figures Appear | T ⁵ |
|-------------------|---------|--------------------------------------|-----------------------------|------------------------|------------------|---|--|--------------------------|
| | 1 | | | | | | | <input type="checkbox"/> |

If you wish to add additional Foreign Patent Document citation information please click the Add button

[Add](#)**NON-PATENT LITERATURE DOCUMENTS**[Remove](#)

| Examiner Initials* | Cite No | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published. | T ⁵ |
|--------------------|---------|---|----------------|
| | | | |

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**
(Not for submission under 37 CFR 1.99)

| | |
|------------------------|-------------|
| Application Number | 10723695 |
| Filing Date | 2003-11-24 |
| First Named Inventor | GMEINER |
| Art Unit | 3661 |
| Examiner Name | N/A M. Marc |
| Attorney Docket Number | 71213 |

| | | | |
|-----|---|--|--------------------------|
| m.m | 1 | PAUL, RICHARD P.: ROBOT MANIPULATORS: MATHEMATICS; Programming and Control; The Computer Control of Robot Manipulators, 1981, The MIT PRESS, Pages 52-53 and 122-123 | <input type="checkbox"/> |
|-----|---|--|--------------------------|

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

| | | | |
|--------------------|----------------|-----------------|----------|
| Examiner Signature | McDiarmid Marc | Date Considered | 2-5-2007 |
|--------------------|----------------|-----------------|----------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.



(Use as many sheets as necessary)

Approved for use through 07/31/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Complete if Known

| | |
|------------------------|-------------------|
| Application Number | 10/723 |
| Filing Date | November 24, 2003 |
| First Named Inventor | GMEINER |
| Art Unit | 3661 |
| Examiner Name | M. Marc |
| Attorney Docket Number | 71213 |

Sheet of

U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

**Examiner
Signature**

McDiemel mar

Date Considered

2-5-2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

LIST OF REFERENCES
BY APPLICANT
(Use several sheets if necessary)

Atty Docket No.: 71213
 Ser. No.: 10/723,695
 Applicant: GMEINER
 Filing Date: November 24, 2003
 Group: 3601

U.S. PATENT DOCUMENTS

| Ex- aminer Initial | Document No. | Date | Name | Class | Sub- class | Filing Date |
|--------------------------|------------------|-----------------------|------------------------|-------|---------------|-----------------------|
| mem | <u>4,967,127</u> | <u>Oct. 30, 1990</u> | <u>Ishiguro et al.</u> | — | — | <u>June 23, 1989</u> |
| mem | <u>5,006,999</u> | <u>April 9, 1991</u> | <u>Kuno et al.</u> | — | — | <u>March 31, 1989</u> |
| mem | <u>5,723,962</u> | <u>March 3, 1998</u> | <u>Mizukami et al.</u> | — | — | <u>March 12, 1996</u> |
| mem | <u>6,356,806</u> | <u>March 12, 2002</u> | <u>Grob et al.</u> | — | — | <u>Dec. 10, 1999</u> |
| | | | | | | |

FOREIGN PATENT DOCUMENTS

| Ex- aminer Initial | Document No. | Date | Country | Class | Sub- class | Translation Yes/No |
|--------------------------|-----------------------|----------------------|---------------|-------|---------------|-----------------------|
| mem | <u>EP 0 349 291</u> / | <u>Jan. 3, 1990</u> | <u>Europe</u> | — | — | <u>Yes</u> |
| mem | <u>EP 0 336 342</u> / | <u>Oct. 11, 1989</u> | <u>Europe</u> | — | — | <u>Yes</u> |
| | | | | | | |

OTHER REFERENCES (Including Author, Title, Date, Pertinent Pages, Etc.)

| Ex- aminer Initial | Author | Date | Title | Textbook in | Translation Yes/No |
|--------------------------|--------|------|-------|-------------|-----------------------|
| | | | | | |
| | | | | | |

McDiarmid m. arc
 Examiner

2-5-2007
 Date Considered



Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449-210

(Use as many sheets as necessary)

| | | |
|-------|--|----|
| Sheet | | of |
|-------|--|----|

Complete if Known

| | |
|------------------------|------------|
| Application Number | 10/723,695 |
| Filing Date | 2003-11-24 |
| First Named Inventor | G. METNER |
| Art Unit | 3681 |
| Examiner Name | M. Marc |
| Attorney Docket Number | 71512 |

U. S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

| FOREIGN PATENT DOCUMENTS | | | | | | |
|--------------------------|-----------------------|---|------------------|---|---|----------------|
| Examiner Initials* | Cite No. ¹ | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited Document | Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear | T ² |
| | | Country Code ³ *Number ⁴ *Kind Code ⁵ (if known) | MM-DD-YYYY | | | |
| M= | | DE 689 18 318 T2 J | 9-21-1994 | Kabushiki... | 1 | |
| | | DE 689 20 212 T2 ✓ | 12-28-1994 | Toyota... | 1 | |
| | | DE 195 07 561 A1 / | 9-14-1995 | Siemens AG | 1 | |
| | | DE 196 26 459 C2 ✓ | 9-2-1999 | Kuka... | 1 | |
| | | DE 196 14 232 A1 ✓ | 10-24-1996 | Mitsubishi... | 1 | |
| | | DE 198 57 436 A1 ✓ | 6-21-2000 | Kuka... | 1 | |

**Examiner
Signature**

medieval macc

| Date | Considered |
|------|------------|
|------|------------|

2-5-2007

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹Applicant's unique citation designation number (optional). ²See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

PTO/SB/08A (08-03)

Approved for use through 07/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1448/PTORANFAP

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Complete if Known

| | |
|------------------------|-------------|
| Application Number | 10/723, 273 |
| Filing Date | 2003-11-24 |
| First Named Inventor | G METNER |
| Art Unit | 3661 |
| Examiner Name | M. Marc |
| Attorney Docket Number | 71213 |

[illegible][illegible]

| | | | |
|-----------------------|----------------|--------------------|----------|
| Examiner Signature | McDiarmid Marc | Date Considered | 2-5-2007 |
|-----------------------|----------------|--------------------|----------|

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.